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APPLICATION NO. FILING DATE		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/685,026		10/14/2003	Andrew J. Wright	5298-15300	4857	
35617	7590	05/12/2006		EXAMINER		
DAFFER P.O. BOX		EIL LLP	TRUONG, LOAN			
AUSTIN,		8		ART UNIT	PAPER NUMBER	
				2114		
			DATE MAILED: 05/12/2006			

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
		10/685,026	WRIGHT ET AL.				
Office Action Sur	nmary	Examiner	Art Unit				
		LOAN TRUONG	2114				
The MAILING DATE of the Period for Reply	is communication app	ears on the cover sheet with the c	orrespondence ac	ldress			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communic	ation(s) filed on 14 Oc	ctober 2003.	•				
2a) This action is <b>FINAL</b> .	· · · · · · · · · · · · · · · · · · ·						
3) Since this application is in							
closed in accordance with	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)⊠ Claim(s) <u>1-30</u> is/are pend	ing in the application.						
4a) Of the above claim(s)	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>1-16 and 22-30</u>	☑ Claim(s) <u>1-16 and 22-30</u> is/are allowed.						
6)⊠ Claim(s) <u>17-19 and 21</u> is/	Claim(s) 17-19 and 21 is/are rejected.						
• • • • • • • • • • • • • • • • • • • •	Claim(s) <u>20</u> is/are objected to						
8) Claim(s) are subje	ct to restriction and/or	election requirement.					
Application Papers							
9)☐ The specification is object	ed to by the Examiner	т.					
10)⊠ The drawing(s) filed on <u>14</u>	October 2003 is/are:	a)⊠ accepted or b)☐ objected	to by the Examin	er.			
. Applicant may not request the	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
_	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119		•		•			
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
1. Certified copies of							
2. Certified copies of							
<ol><li>Copies of the certif</li></ol>	<u> </u>						
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)				•			
1) Notice of References Cited (PTO-892		4) Interview Summary					
<ul> <li>2) Notice of Draftsperson's Patent Draw</li> <li>3) Information Disclosure Statement(s) (</li> </ul>	ing Review (PTO-948)	Paper No(s)/Mail Da 5) Notice of Informal P	ite atent Application (PT(	D-152)			
Paper No(s)/Mail Date	. 13-14-3 01 F 10/30/00)	6) Other:	- Francisco (i	- · <del></del> /			

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### **DETAILED ACTION**

## Allowable Subject Matter

1. Claims 1-16and 22-30 are allowed.

The following is an examiner's statement of reasons for allowance:

The examiner deem claims 1-16 and 22-30 as novel when read as a whole for:

A comparator coupled to compare a search key value against the first and second the limitations of a content addressable memory (CAM) comprising: sets of values and report an error if a first location within the first set of CAM locations that produces a match is different from a first location within the second set of CAM locations that produces a match, regardless of whether the match suppression bit is set.

An error location circuit coupled to check the first and second sets of values using the error detection encoded bits and to record, as a result of the check whether the error is within the first set of values, the second set of values, or both.

Generating an error if the first location within the first set of CAM locations is at a different index than the first location within the second set of CAM locations.

Copying over one of the duplicative sets of values within the first set of CAM locations having a recorded error from a set of values within the second set of CAM locations and having the same index as the first set of CAM locations if there was no error recorded at an index in the second set.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

2. Claim 20 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

# Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 17-19 and 21 are rejected under 35 U.S.C. 102(e) as being anticipated by Roth et al. (US 2005/0001744).

In regard to claim 17, Roth et al. disclosed a content addressable memory (CAM), comprising:

A first block of CAM locations coupled to store a first set of values (PE Block 0, fig. 2, 205, 206);

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A second block of CAM locations coupled to store a second set of values (*PE Block 1*, fig. 2, 205, 206); and

An input control circuit (MMFin, fig. 4b) coupled to the first and second blocks of CAM locations (MF0 and MF1, fig. 4b, 422, 426) that selects if the first and second sets of values are to be duplicative of each other (MMFout, fig. 4b, 422, 426).

In regard claim 18, Roth et al. disclosed the CAM as recited in claim 17, further comprising an output control circuit coupled to:

Receive a signal from the input control circuit indicating if the first and second sets of values in the respective first and second blocks of CAM locations are duplicative of each other or not (MMFin, fig. 4b); and

Select a first set of values from the first block of CAM locations (*lower physical address* is a higher priority and B<A, subtractor outputs a high, paragraph 0047), a second set of values from the second block of CAM locations (B>A, subtractor outputs a low, paragraph 0047), or both the first and second sets of values from the respective first and second blocks of CAM locations (A=B, Subtractor outputs a low, fig. 4a, 404, paragraph 0047).

In regard to claim 19, Roth et al. disclosed the CAM as recited in claim 18, wherein the output control circuit provides a priority order (each 2:1 sub PE determines which of its two inputs (block) has the highest priority match, paragraph 0044) by which the first set of values from the first block of CAM locations and the second set of values from the second block of CAM locations are compared against a search key value relative to other sets of values within the

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first and second blocks of CAM locations (CAM takes a search word and performs a searchand-compare operation for that search word through the entries stored in the CAM, paragraph 0004).

In regard to claim 21, Roth et al. disclosed the CAM as recited in claim 18, further comprising a plurality of CAM block pairs, whereby each pair is coupled to operate independent of other CAM block pairs (*PE Block 0-127, fig. 2, 205, 206*).

### Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PTO 892.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Loan Truong whose telephone number is (571) 272-2572. The examiner can normally be reached on M-F from 8am-4pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Scott Baderman can be reached on (571) 272-3644. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Loan Truong Patent Examiner AU 2114

SCOTT BADERMAN
SUPERVISORY PATENT EXAMINER